

1/28

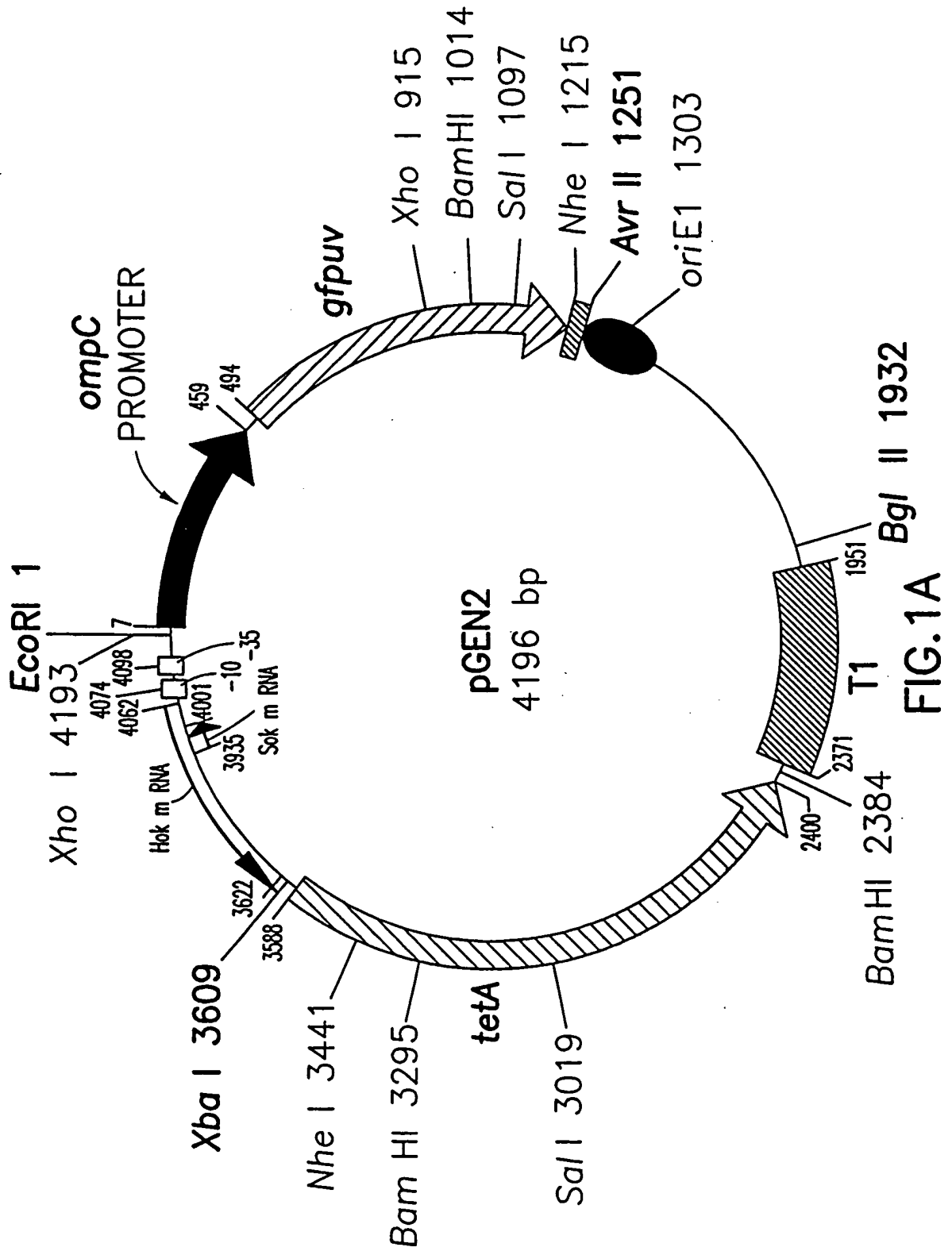
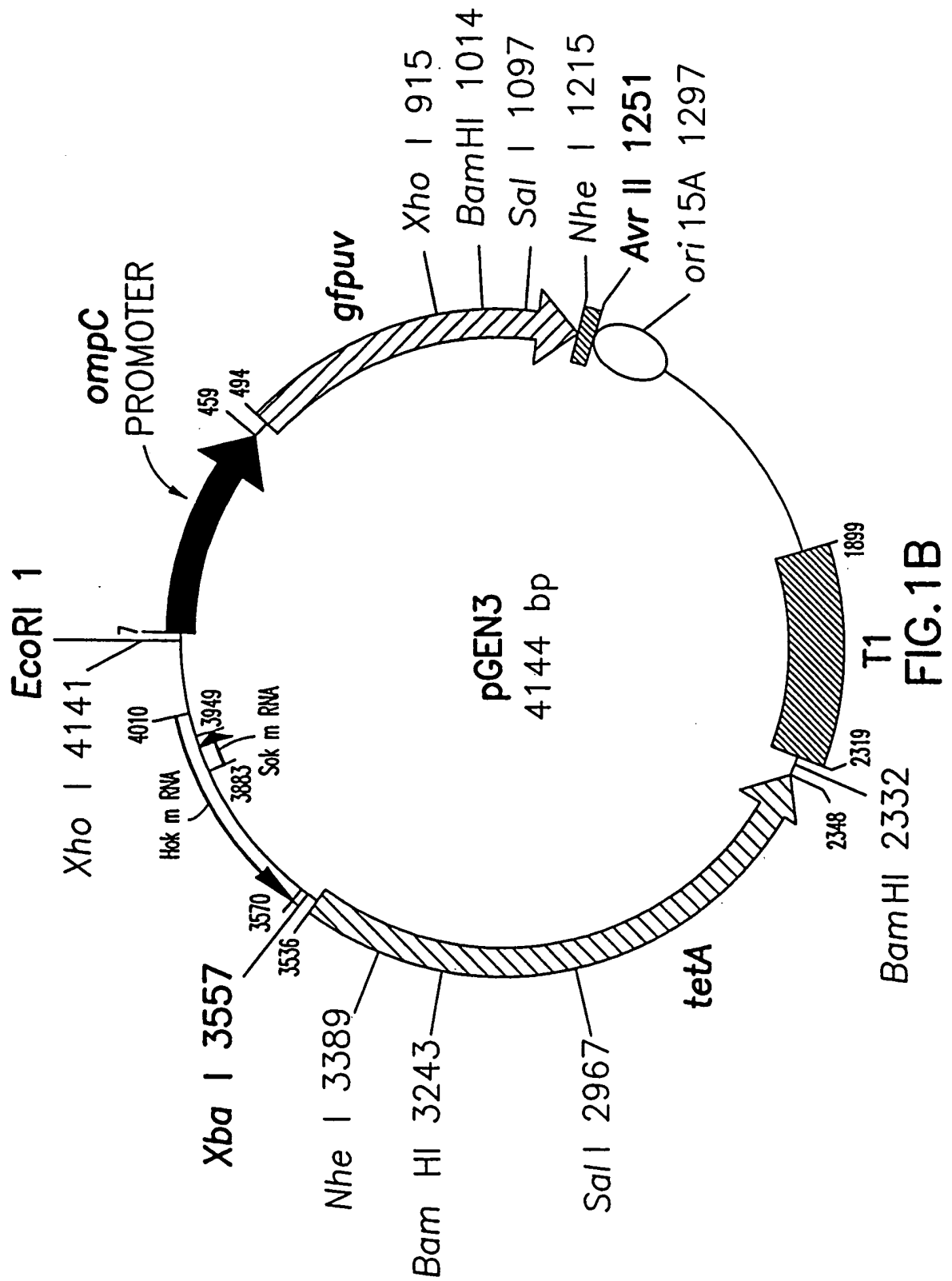


FIG.1A

2/28



3/28

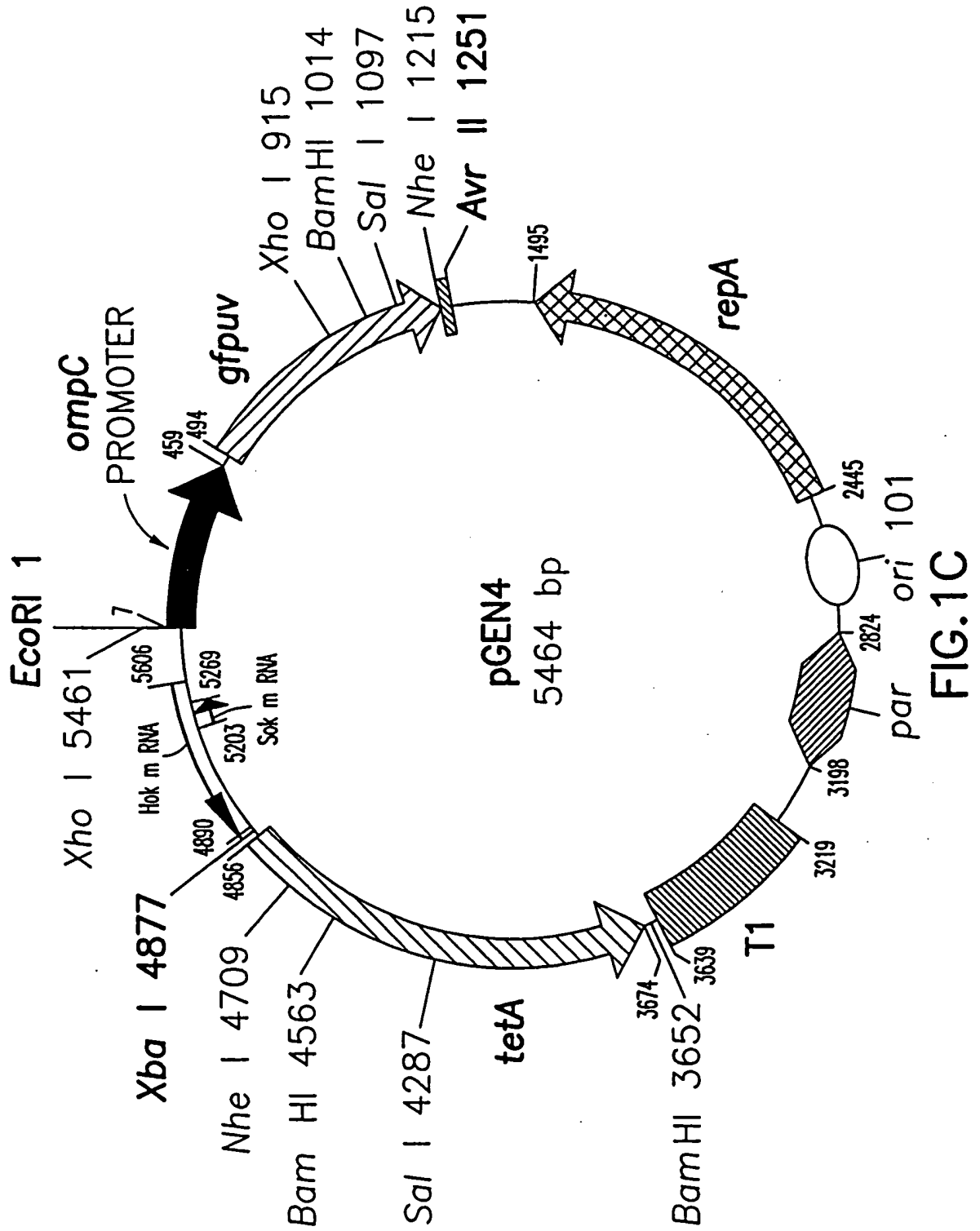


FIG.1C

4/28

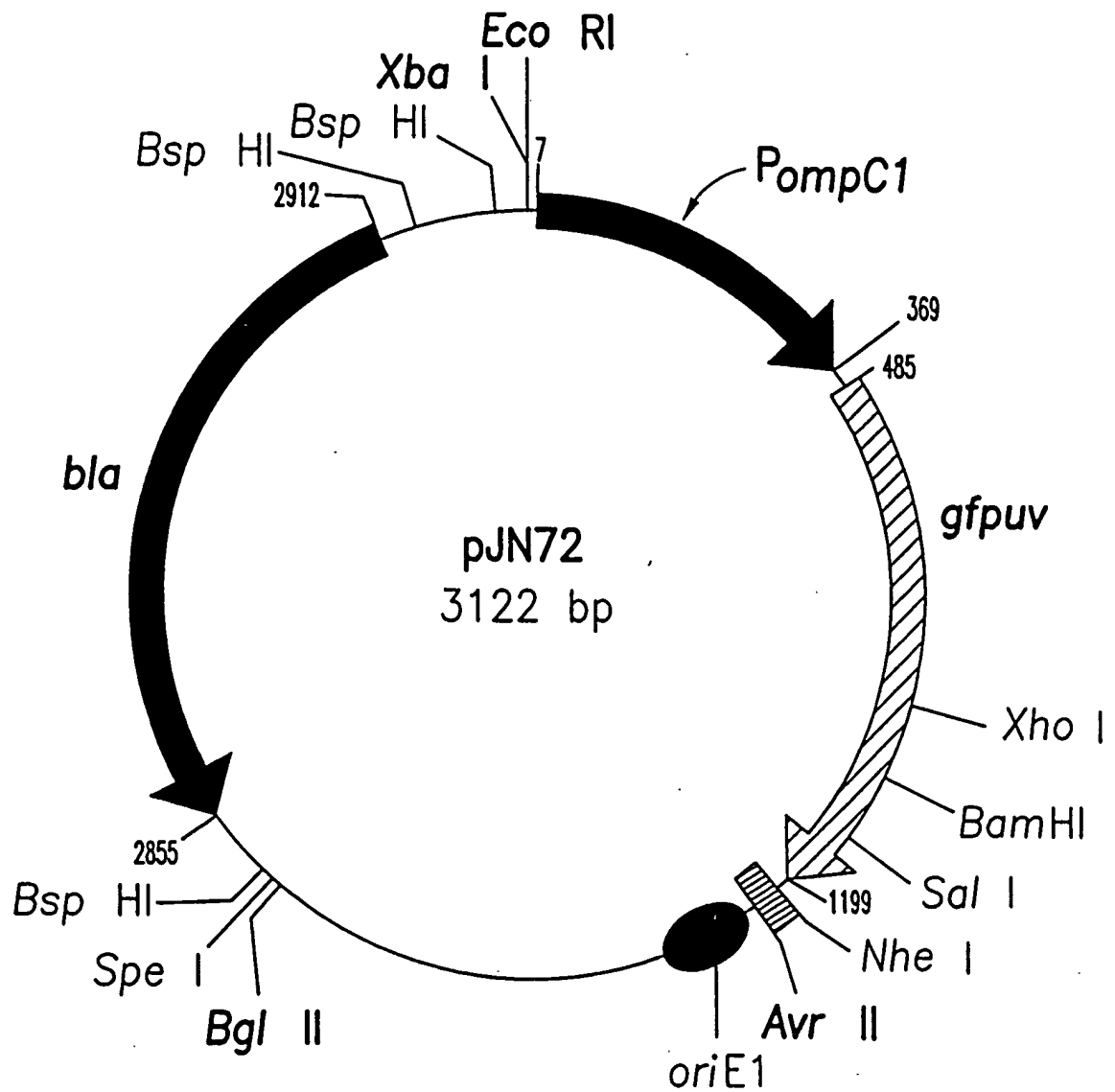


FIG.2A

5/28

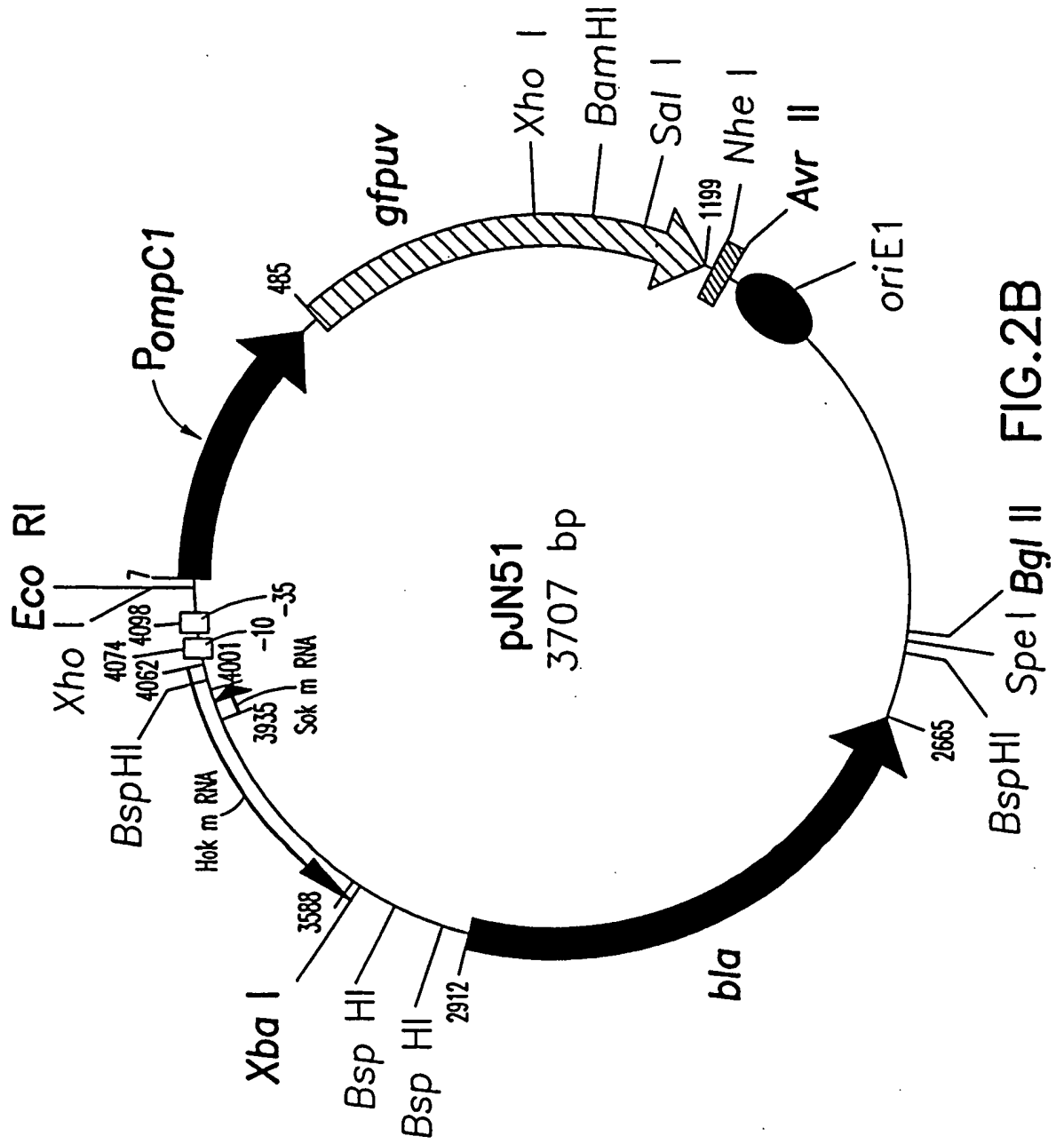


FIG.2B

6/28

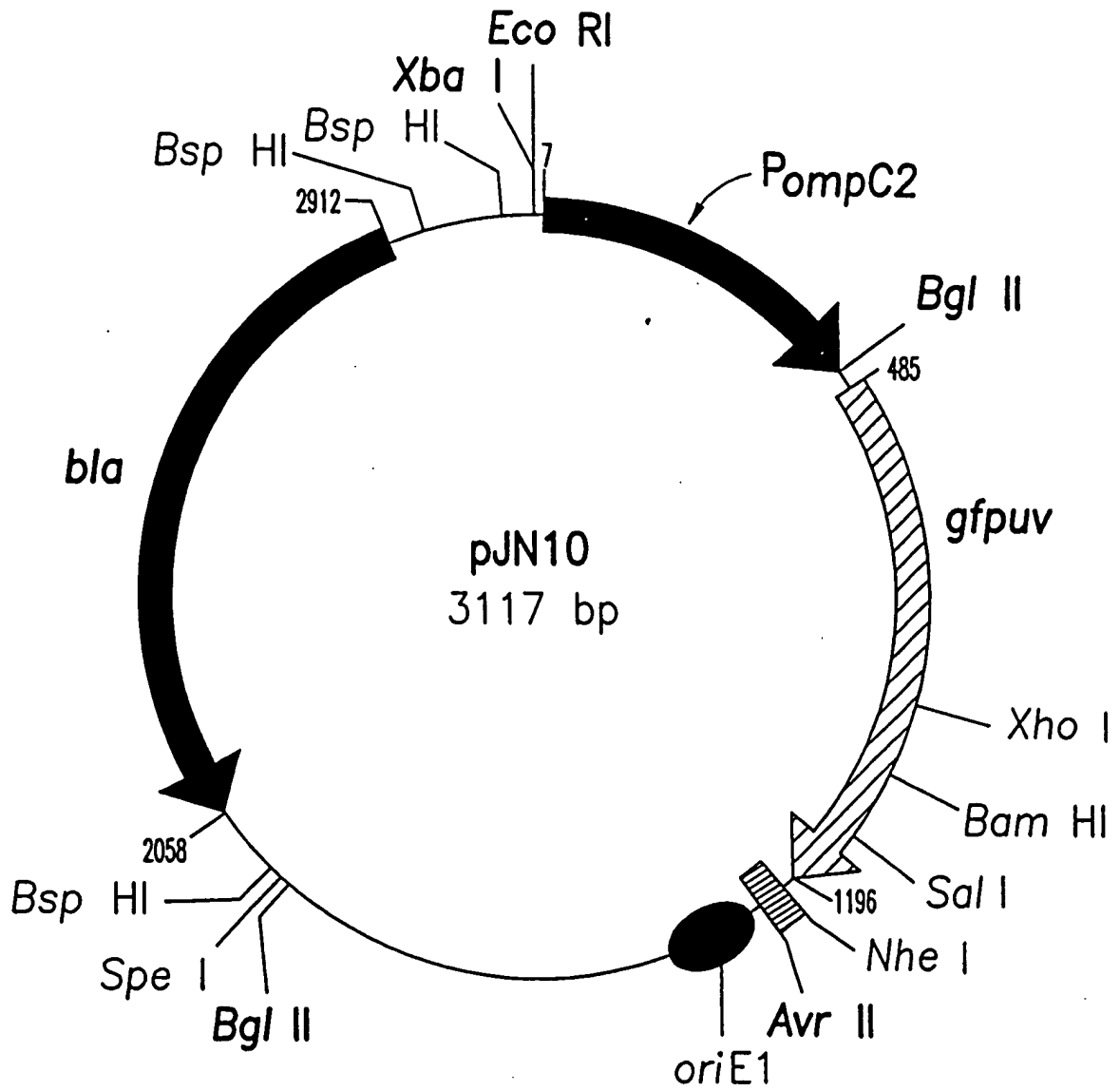


FIG.2C

7/28

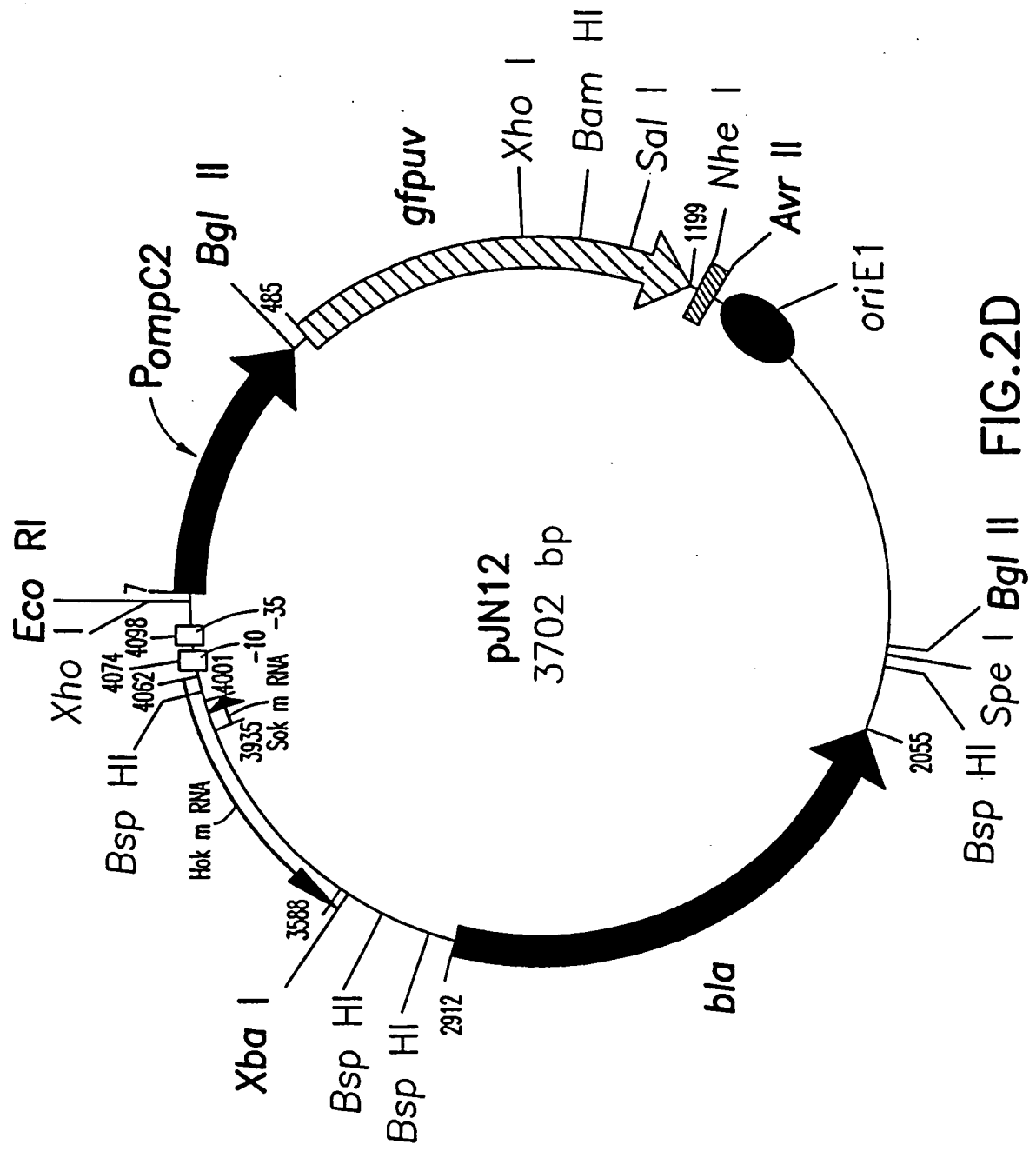


FIG.2D

8/28

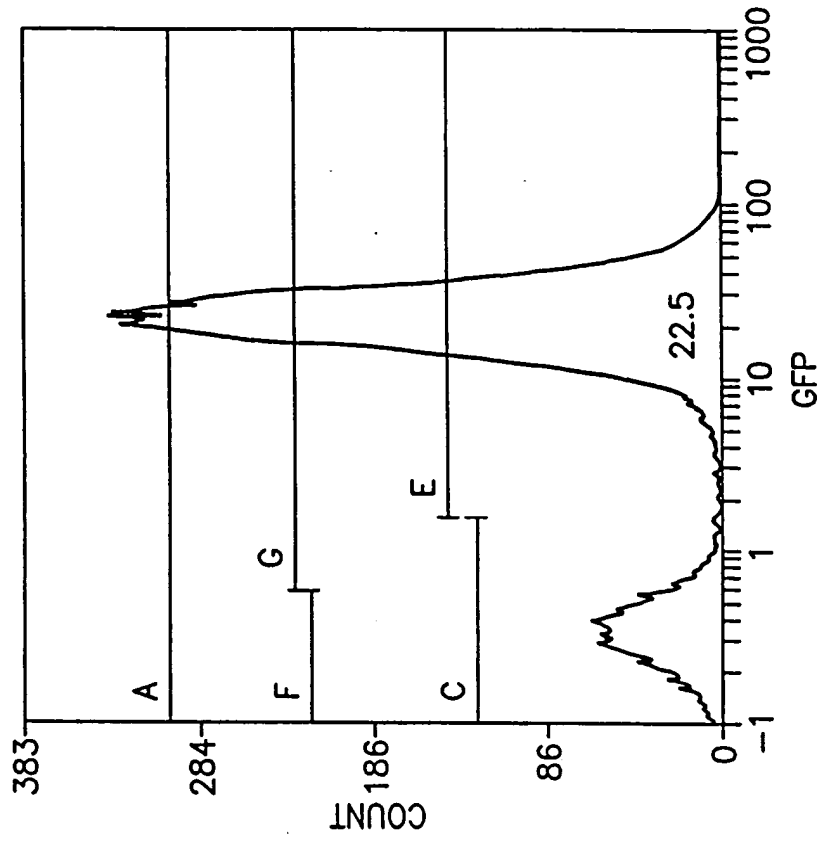


FIG. 3B

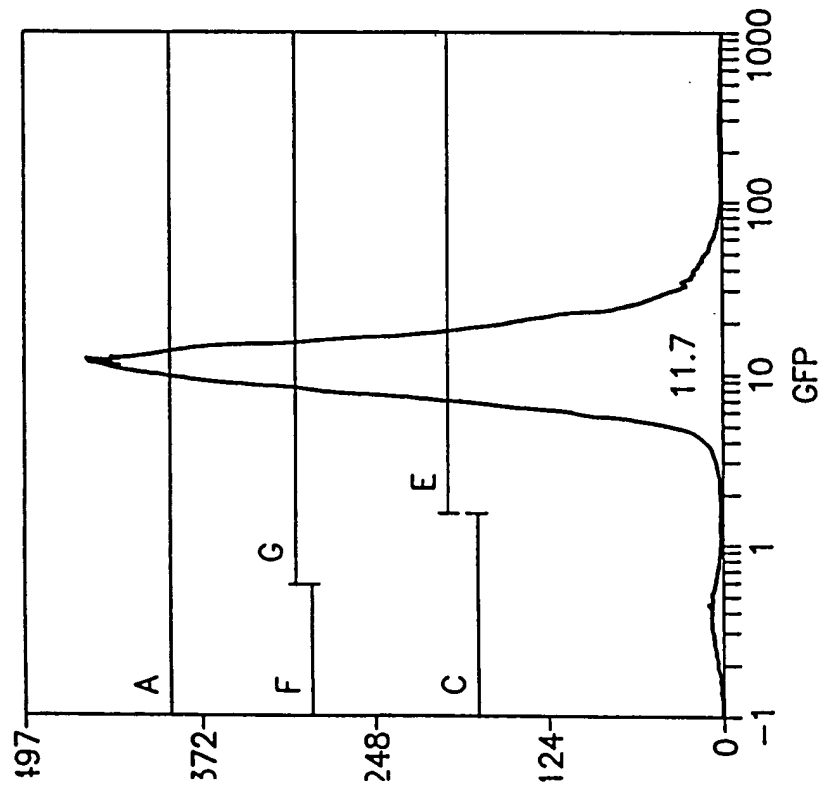


FIG. 3A

9/28

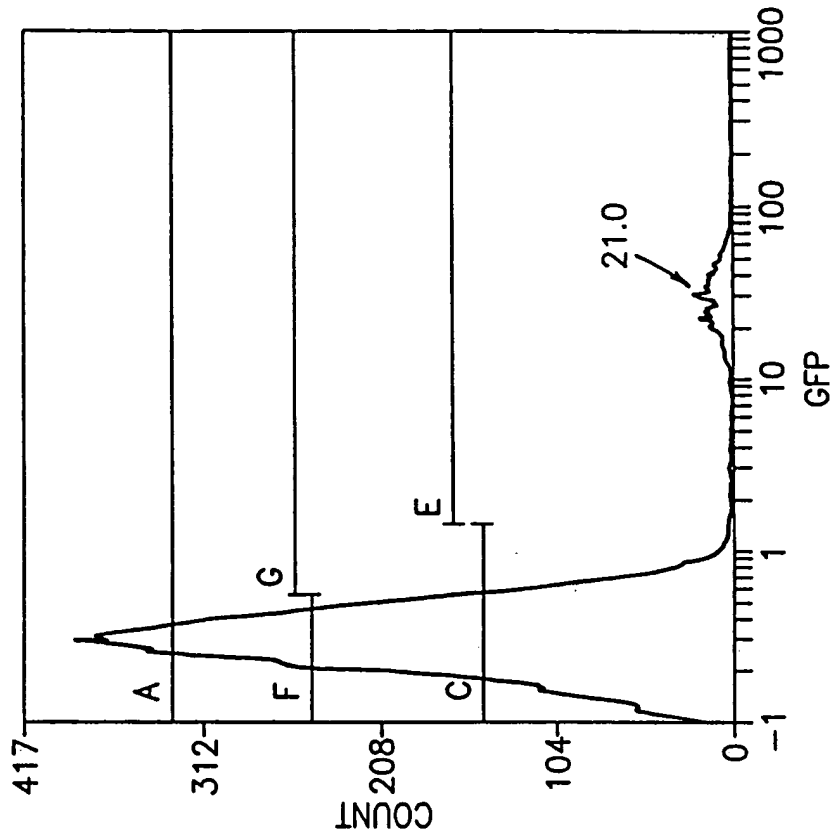


FIG. 3D

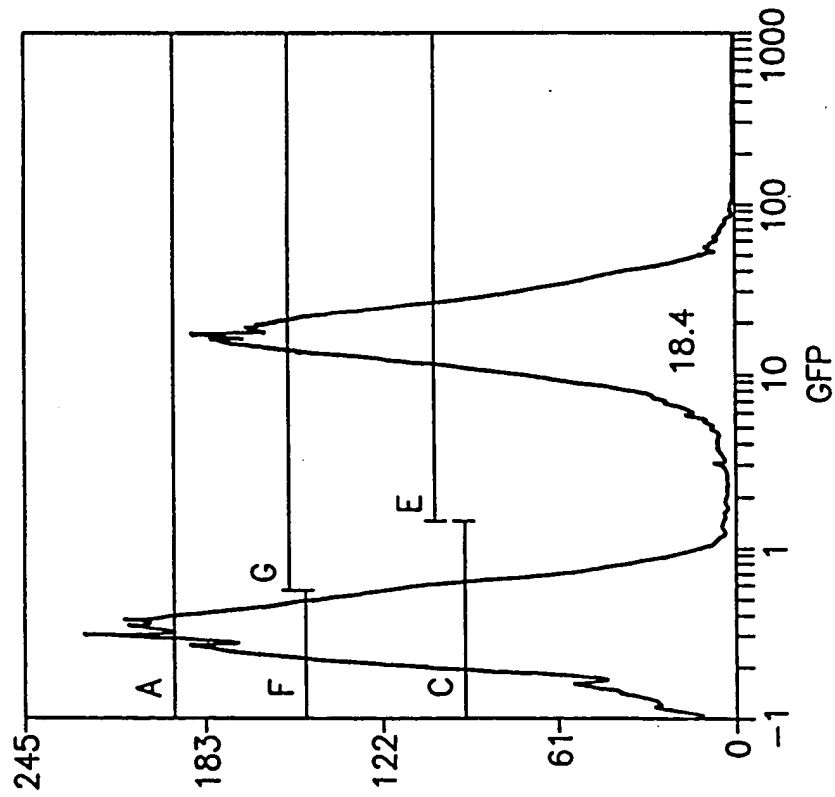


FIG. 3C

10/28

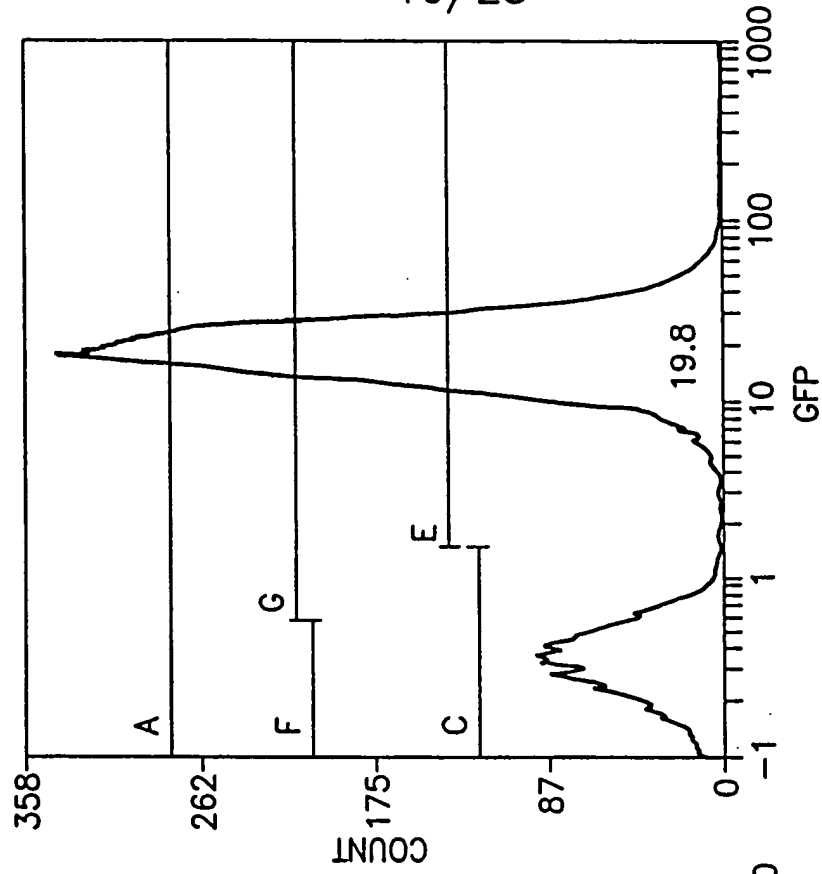


FIG. 3F

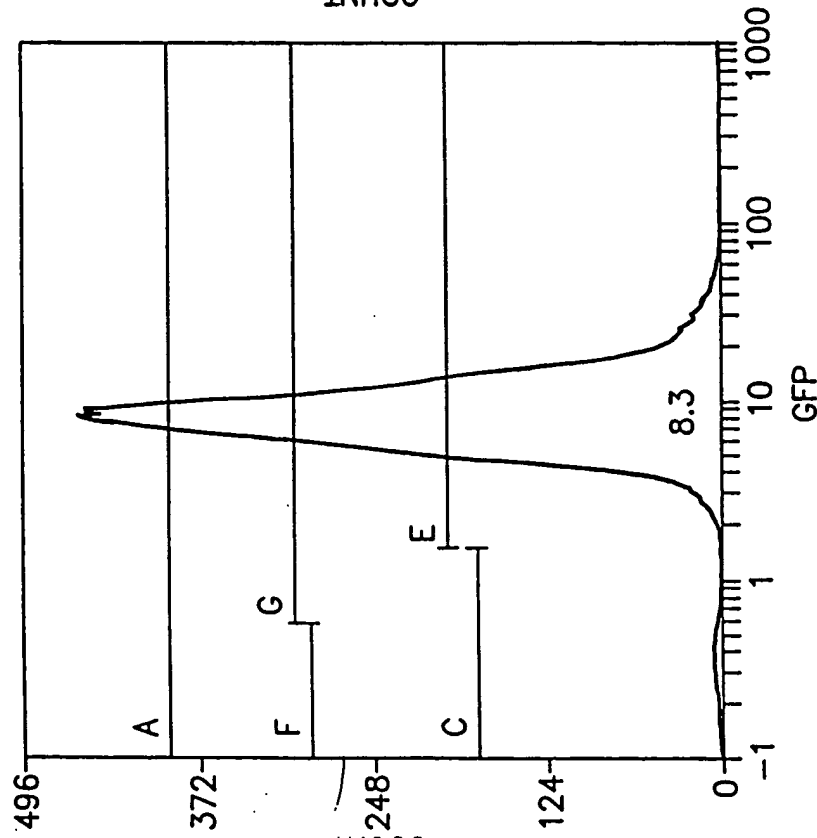


FIG. 3E

11/28

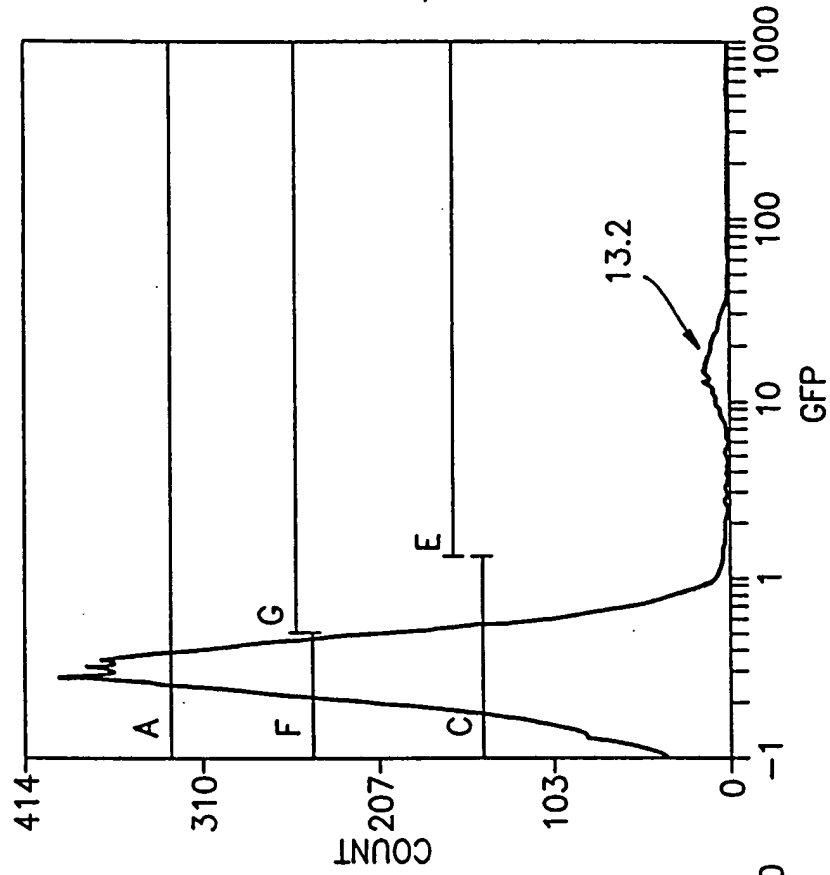


FIG. 3H

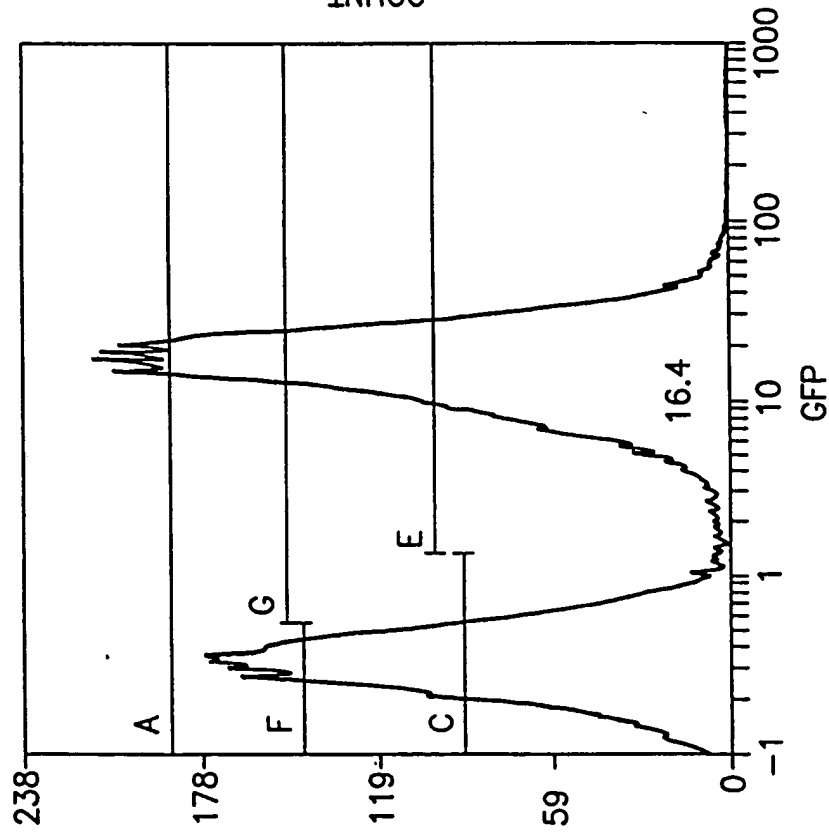


FIG. 3G

FIG. 4A

gaattctgtg gtagcacaga ataatgaaaa gtgtgtaaag aagggtaaaa aaaacgaat 60
 gogaggcatc oggttgaaat aggggtaaac agacattcag aatgaatga oggtaataaa 120
 taaagttaat gatgatagag ggaagttattc tagttgogag tgaaggtttt gttttgacat 180
 tcagtgtgt caaatactta agaataagtt attgatttta aocctgaatt attattgctt 240
 gatgttaggt gcttatttog ocattoogca ataacttaa aaagttcoct tgcatttaca 300
 ttttgaaaca tctatagoga taaatgaaac atcttaaaag ttttagtattc atattogtgt 360
 tggattattc tgcatttttg gggagaatgg acttgoogac tgattaatga gggttaatca 420
 gtagcagtg gcataaaaaa gcaataaaag gcataataca gatogattctt aaacatccac 480
 aggaggatat ctgatgagta aaggagaaga acttttccact ggaagtgtoc caattcttgt 540
 tgaattagat ggtgatgtta atgggcacaa attttctgtc agtgagagag gtgaagggtga 600
 tgcaacatac ggaaaactta cocttaaatt tatttgcaact actggaaaac tacctgttcc 660
 atggccaaca cttgtcacta ctttctctta tgggtgttcaa tgctttttcc gttatcoogga 720
 tcatatgaaa oggcattgact ttttcaagag tgocatgccc gaaggtttatg tacaggaaag 780
 cactatatct ttcaaatgatg aogggaaacta caagaoggt gctgaagtca agtttgaagg 840
 tgatacoctt gttaatogta togagtttaa aggtattgat tttaaagaag atggaaacat 900
 tctoggacac aaactogagt acaactataa ctcacacaat gtatacatca oggcagacaa 960
 acaaaaagaat ggaatcaaag ctaacttcaa aattogocac aacattgaag atggatcogt 1020
 tcaactagca gaocattatc aacaaaatac tocaattggc gatggcoctg tocttttacc 1080

12/28

13/28

jacaacat taactgtoga cacaatctgc octttogaaa gatoccaaog aaaagogtga 1140
acatggtc cttcttgagt ttgtaactgc tgctgggatt acacatggca tggatgagct 1200
acaaataa tgagctagoc ogctaataga gggggctttt tttctoggc ctagggccag 1260
aaaggoca ggaacogtaa aaaggcogog ttgctggggt ttttccatag gctcogcccc 1320
ctgaogagc atcacaaaaa togaogctca agtcagaggt ggogaaaoccc gacaggacta 1380
aaagataac aggggtttcc ooctggaagc tooctogtgc gctctoctgt tooagacccg 1440
ggcttaoog gataoctgtc ogcctttctc octtogggaa gogtggogct ttctcatagc 1500
caogctgta ggtatctcag ttoggtgtag gtogttogct ocaagctggg ctgtgtgcac 1560
aacccccog ttcagccoga cagctggoc ttatcoggtta actatogtct tgagtccaac 1620
ggtaagac aogacttacc gcactggca gcagocactg gtaacaggat tagcagagcg 1680
ggtatgtag ggggtgctac agagtctctg aagtgggtggc ctaactaogg ctacactaga 1740
ggacagtat ttggtatctg ogctctgctg aagccagtta octtoggaaa aagagtgggt 1800
gctcttgat cgggcaaaaa aaccacogct ggtagoggtg gtttttttgt ttgcaagcag 1860
agattaogc gcagaaaaaa aggatctcaa gaagatocct tgatcttttc taoggggtct 1920
aogctcagt agatctaaaa cactaggcc aagagtttgt agaaaogcaa aaaggccatc 1980
gtcaggatg goctctgct taatttgatg octggcagtt tatggogggc gtoctgcccc 2040
caocctcog ggcogttgct togcacagtt caaatcogct ccggggggat ttgtcctact 2100
aggagagcg ttcaocgaca aacaacagat aaaaogaaag gccagtcctt togtactgagc 2160

FIG.4B

FIG. 4C

tttogtttt atttgatgoc tggcagttoc ctactctogc atggggagac ccacactac 2220
 catoggogct aoggogtttc acttctgagt toggcatggg gtcaggtggg accaooogoc 2280
 tactgococ aggc aaattc tgttttatca gacogcttct gogttctgat ttaatctgta 2340
 tcaggctgaa aatcttctct catocgocaa aacagocaaag ctggatoccc gatcttatca 2400
 ggtogaggtg gccoggctoc atgcacogog aogcaaoog gggagggcaga caaggtatag 2460
 gggogogoct acaatocag ocaaoogtt ocatgtgtc gogagggog cataaatogc 2520
 cgtgaogatc agoggtocag tgatogaagt taggctggta agagooogga gogatocttg 2580
 aagctgtoc tgatggtoct catctaocctg octggacagc atggocctgca aogogggcat 2640
 coogatgoc ooggagoga gaagaatcat aatggggaag gccatocagc ctogogtogc 2700
 gaogocagc aagaogtagc ocagogogtc ggcogocag coggogataa tggocctgctt 2760
 ctogocgaaa ogtttggtgg ogggaccagt gaogaaggct tgagogaagg ogtgcaagat 2820
 tcoogaatacc gcaagogaca ggcogatcat ogtoogogctc cagogaagaagc ggtocctogoc 2880
 gaaatgaoc cagagogctg ooggcaoctg toctaogagt tgcataataa agaagacagt 2940
 cataagtgg gogaogatag tcatgocccog ogccacocgg aaggagctga ctgggttgaa 3000
 ggctctcaag ggcatoogtc gaogctctoc cttatgogac toctgcatta ggaagcagoc 3060
 cagtagtagg ttgaggcoct tgagcaocgc ogocgaagg aatggtgcat gcaaggagat 3120
 ggogoccaac agtccccog ocaogggoc tgcaacata ocaogocga aacaagocct 3180
 catgagocog aagtggogag coogatctc ccatoogtg atgtoggoga tataggogoc 3240

15/28

```

jcaacogca octgtgggc oggtgatgc ggccaogatg ogtooggogt agaggatoca 3300
jggacgggt gtggtogoca tgatogogta gtogatagtg gctocaaagta gogaagogag 3360
jggactggg oggoggocaa agoggtogga cagtgtctog cagtaagggtg agcatagaaa 3420
jgcataac gcataatagc ctagcagcac gocatagtga ctggogatgc tgtoggaatg 3480
jogatatoc ogcaagaggc ooggcagtac oggcataaac aagocatatgc ctacagcatc 3540
jgggtgacg gtgocgagga tgaogatgag ogcattgtta gatttcattt tttttctc 3600
jtattttct agacaaacatc agcaaggaga aaggggctac oggogaoca gcagocctt 3660
jataaggog cttcagtagt cagacagca tcagtoctga aaaggogggc ctgogocogc 3720
jocaggtg ctacttacg gattoytaag ocatgaaagc ogcacoctoc ctgtgtcoogt 3780
jctgtaag aatctogcac agogatcttc gtgtcagata agtgaatc aacagtgtga 3840
jacacaogat caacacacac cagacaaggg aacttogtgg tagtttcag gcttcttct 3900
jttgogcaa agogoggtaa gaggctatoc tgatgtggac tagacatagg gatgocctogt 3960
jtggttaat gaaaattaac ttactaogg gctatcttct ttctgocaca caacaogga 4020
jaaaccaoc ttcaogtcat gaggcagaaa goctcaagc ogggcacat catagoccat 4080
taoctgcac gctgaocaca ctactttoc ctgaaaataa toogctcatt cagacogttc 4140
jgggaaatc ogtgtgattg ttgoogcatc aogctgoctc oggaggttg tctoga 4196

```

FIG.4D

16/28

ctacaaataa tgagctagoc ogcctaataga gggggctttt ttttctoggc ctaggagata 60
cttaacaggg aagtgagagg gcoogggcaa agcogttttt ocataggctc ogccccoctg 120
acaagcatca ogaaatctga ogctcaaatc agtggtggog aaacccagaca ggactataaa 180
gataccaggc gtttccccct ggoggctoc togtgogctc toctgttact goctttoggt 240
ttacoggtgt cattcoogctg ttatggcgc gtttgtctca ttccaagcct gacactcagt 300
tcooggtagg cagttogctc caagctggac tgtatgcaog aacccccogt tcagtcogac 360
cgctgogcct tatooggtaa ctatogtctt gagtocaaoc oggaaagaca tgcaaaagca 420
ccactggcag cagccactgg taattgattt agaggagtta gtcttgaagt catgogocgg 480
ttaaggctaa actgaaagga caagttttgg tgactgogct octocaaagc agttaoctog 540
gttcaaagag ttggtagctc agagaaocctt ogaaaaaocg cactgcaagg oggttttttc 600

FIG.5A

17/28

tttcagag caagagatta ogogcagaoc aaaogatct caagaagatc atcttattaa 660
agataaaa tatttctagg atctaaaaca ctaggoccaa gagttttagtag aaagcaaaa 720
ggocatoo tcaggatggc cttctgctta atttgatgoc tggcagttta tggogggogt 780
tgcoogoc aooctooogg oogttgcttc gcaaogttca aatooctoc oggoggattt 840
coctactca ggagagogtt cacogacaaa caacagataa aaogaaaggc ocagtctttc 900
actgagoc ttogttttat ttgatgoc tggatgoc actctogcat ggggagagoc 960
acactaoca toggogctac ggggtttcac ttctgagttc ggcattgggt caggtgggac 1020
acogogcta ctgocogocag gcaaattctg ttttatcaga oogcttctgc gttctgattt 1080
atctgtatc aggctgaaaa tcttctctca toogocaaaa cagocaaagt ggcataccga 1140
ttatcagg toagggtggc ooggctocat gcaocogagac gcaocogogg gaggcag 1197

FIG.5B

18/28

ctacaaataa tgagctagcc ggcctaataga gggggctttt ttttctoggc ctaggtttca 60
octgttctat taggtgttac atgctgttca tctgtttacat tgtogatctg ttcattgtga 120
acagctttaa atgcaocaaa aactogtaaa agctctgatg tatctatctt ttttacacog 180
ttttcatctg tgcataatga cagtttttooc tttgatatac aaoggtgaac agtgtttcta 240
cttttgtttg ttagtcttga tgcttcaactg atagatacaa gagocataag aaocctcagat 300
octtcoogtat ttagccagta tgttctctag tgtggttctg tgtttttgog tgagccatga 360
gaacgaacca ttgagatcat gcttactttg catgtcactc aaaaattttg octcaaaact 420
ggtgagctga atttttgcag ttaaagcacc gtgtagtgtt tttcttagtc ogttaogtag 480
gtaggaatct gatgtaatgg ttgttggtat ttgtgcacca ttcatTTTTA tctggttgtt 540
ctcaagttog gttaogagat ccatttgtct atctagtcca acttggaaaa tcaaatgtatc 600
agtogggggg octogcttat caaccaocaa tttcatattg ctgtaagtgt ttaaatcttt 660
acttattggg ttcaaaaacc attggttaag ctttttaaac tcatggtagt tattttcaag 720
cattaacatg aactaaatt catcaaggct aatctctata tttgocctgt gagttttctt 780
ttgtgttagt tcttttaata aocactcata aatocctcata gattatttgt tttcaaaaaga 840
cttaacatgt tocagattat attttatgaa tttttttaac tggaaaagat aaggcaatat 900
ctcttacta aaaactaatt ctaatttttc gcttgagaac ttggcatagt ttgtocactg 960
gaaaatctca aagoccttaa ocaaaggatt cctgatttcc acagttctog tcatcagctc 1020
tctggttgct ttagctaata caacataagc attttcccta ctgatgttca tcatctgagc 1080

FIG.6A

1140
1200
1260
1320
1380
1440
1500
1560
1620
1680
1740
1800
1860
1920

attggtta taagtgaag ataacgtggtt ttcttctgtt gtaggggttt caatogtggg
tgagtagt ggcacacagc ataaaattag cttgggtttca tgctoogtta agtcatagag
taatogct agttcatttg ctttgaaaac aactaattca gacatacatc tcaattgggc
aggtgattt taatcactat accaattgag atgggctagt caatgataat tactagtct
tctcttga gttgtgggta tctgttaaatt ctgctagaac ttgtctggaa aacttgtaaa
ctgctaga coctctgtaa attcoogctag aoccttctgt gtcttttttg tttataattca
gtggttata atttatagaa taaagaaaga ataaaaaag ataaaaagaa tagatccag
ctgtgtat aactcactac tttagtcagt toogcagtat tacaaaaagga tctogcaaac
ctgttgct cctctacaaa acagaoccta aaacocctaaa ggcttaagta gcaocctogc
agctogggc aaatogctga atattcctt ttgtctogac catcaggcac ctgagtgct
tctttttog tgacattcag ttogctgogc tcaoggctct ggcagtgat gggggtaaat
gcactacag gogocctttta tggattcatg caaggaaact acccataata caagaaaagc
gtcaoggg cttctcaggg ogttttatgg oggtctgct atgtgggtgt atctgacttt
tgctgttca gcagttctgt coctctgatt ttocagctgt accacttgg attatccgt

19/28

FIG.6B

jacaggtcat tcagactggc taatgcaocc agtaaggcag oggtatcatc aacaggctta 1980
 ccogtcttac tgtcaacogg atctaaaca ctaggcccaa gagtttgtag aaacgcaaaa 2040
 aggcacatcg tcaggatggc cttctgctta atttgatgoc tggcagttta tggcgggggt 2100
 ccctgcccgc aacctoogg ccgttgcttc gcaacgttca aatccgctoc cggcgggattt 2160
 gtoctactca ggagagcgtt caccgacaaa caacagataa aaagaaaggc ccagtccttc 2220
 gactgagcct ttogttttat ttgatgocgt gcagttccct actctcgcat ggggagaccc 2280
 cacactaoca toggcgctac ggggtttcac ttctgagttc ggcattgggt caggctgggac 2340
 cacccggcta ctgcgcgcag gcaaatcttg ttttatcaga ccgcttctgc gttctgattt 2400
 aatctgtatc aggcctgaaa tcttctctca tocgccaaa cagccaagct ggatccccga 2460
 tcttatcagg toagggtggc ccggctocat gcacccggac gcaacggggg gaggcagaca 2520
 aggtataggg cggcgocctac aatccatgoc aacccgttcc atgtgctcgc cggcggggca 2580
 taaatogcgg tgaagatcag cggctocagt atcgaagtta ggctggtaag agccggcgagc 2640
 gactcctt

FIG.6C

21/28

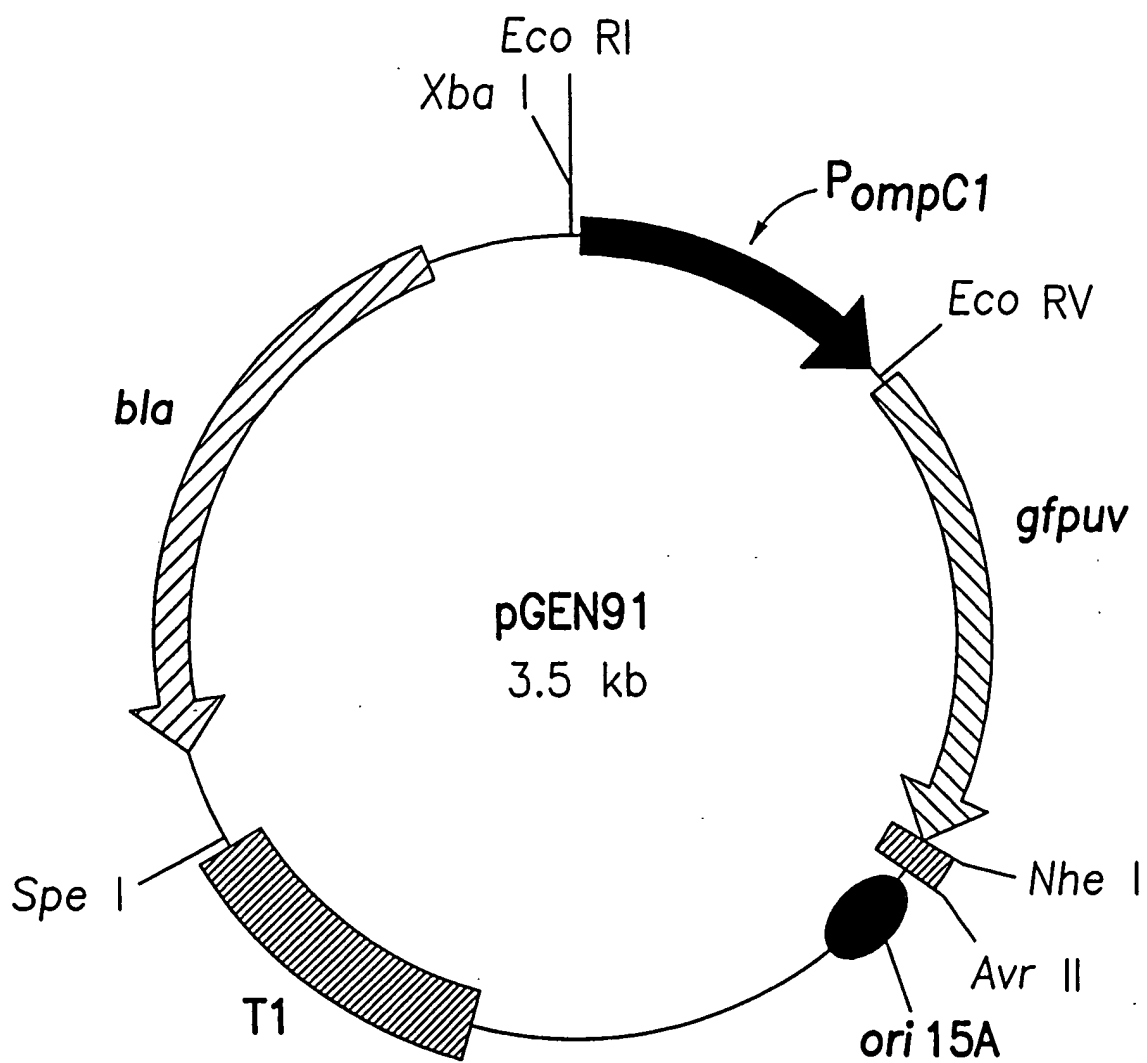


FIG.7A

22/28

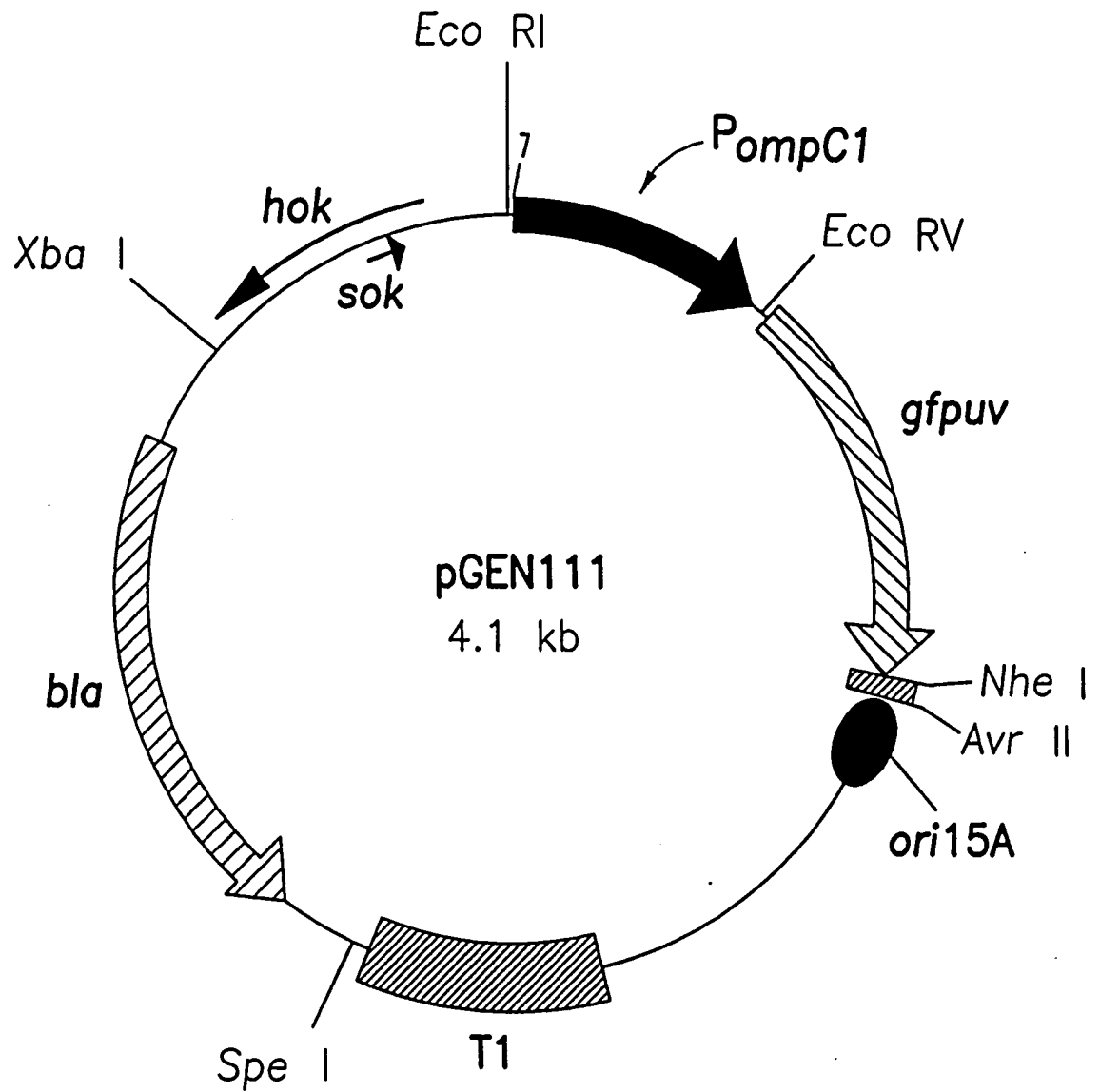


FIG.7B

23/28

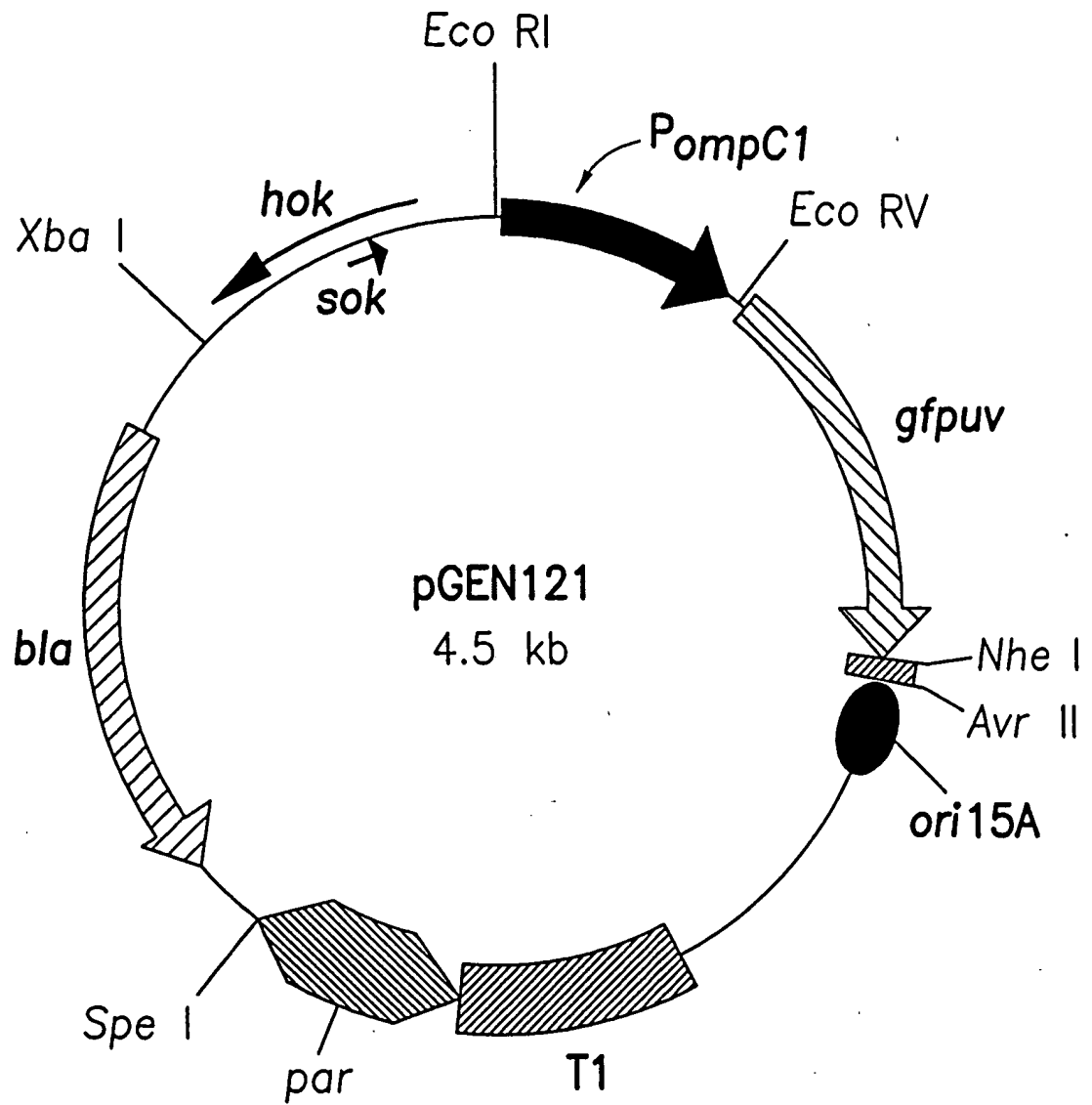


FIG.7C

24/28

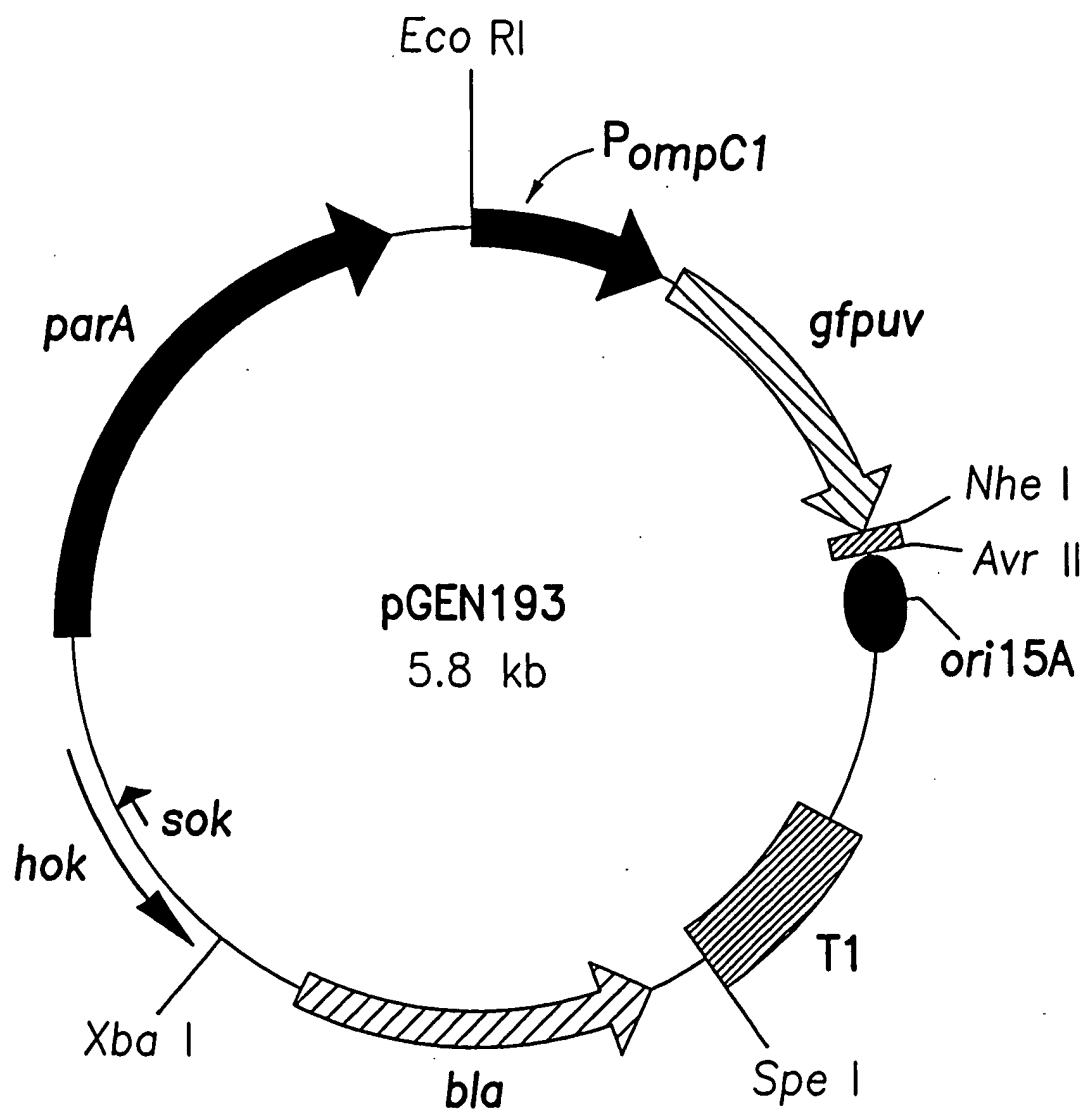


FIG.7D

25/28

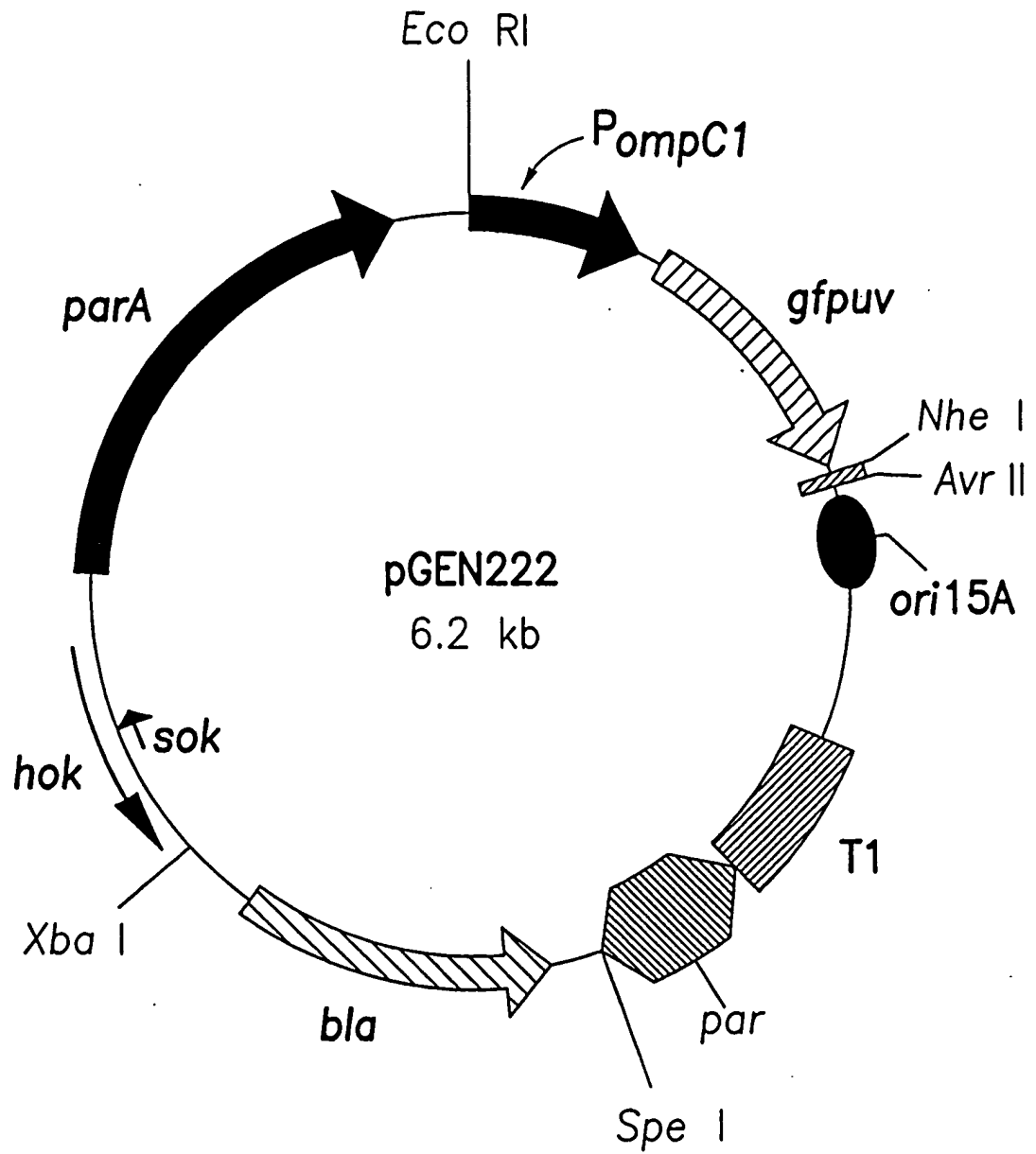
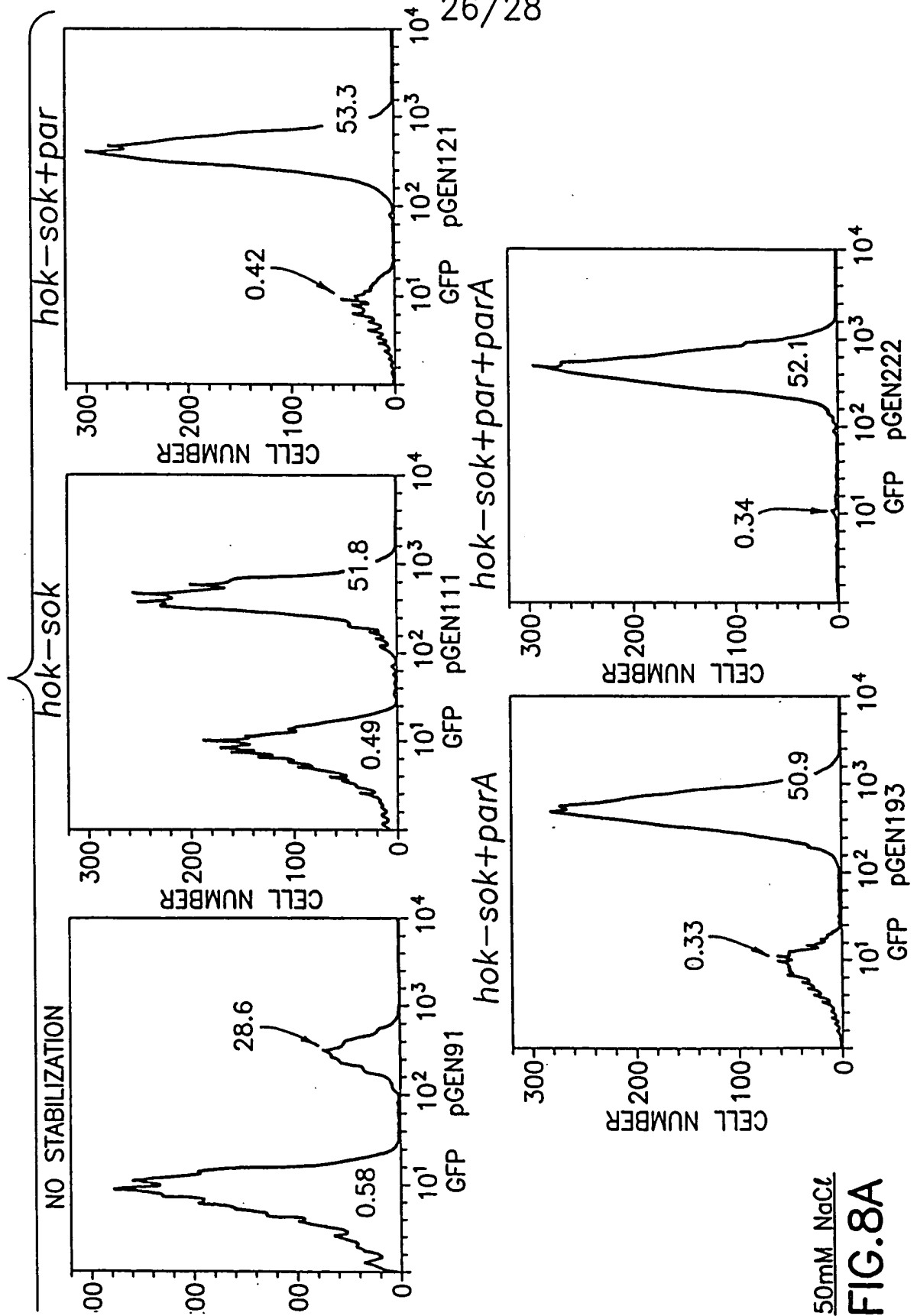
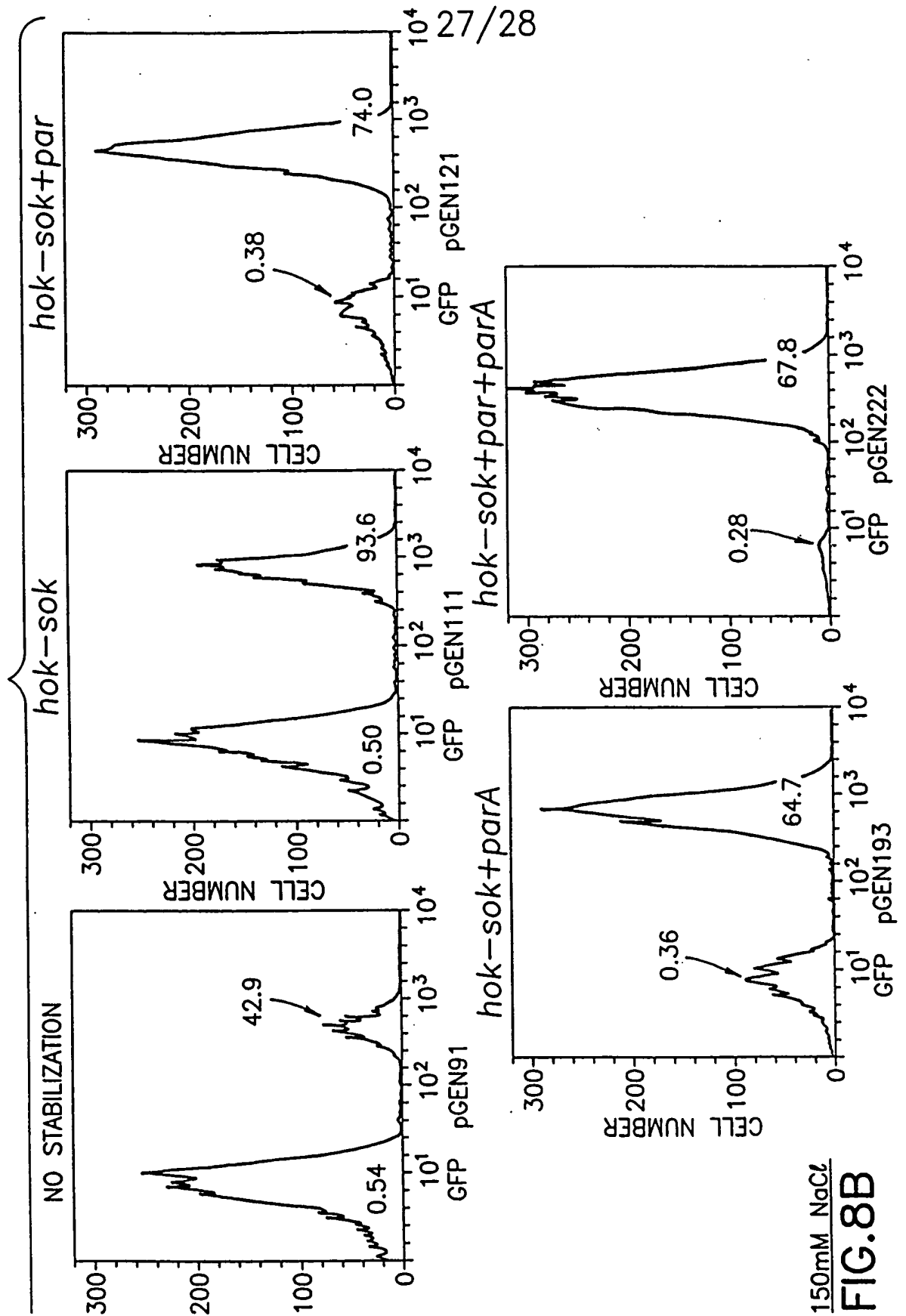


FIG.7E

26/28



50mM NaCl
FIG.8A



150mM NaCl
FIG.8B

28/28

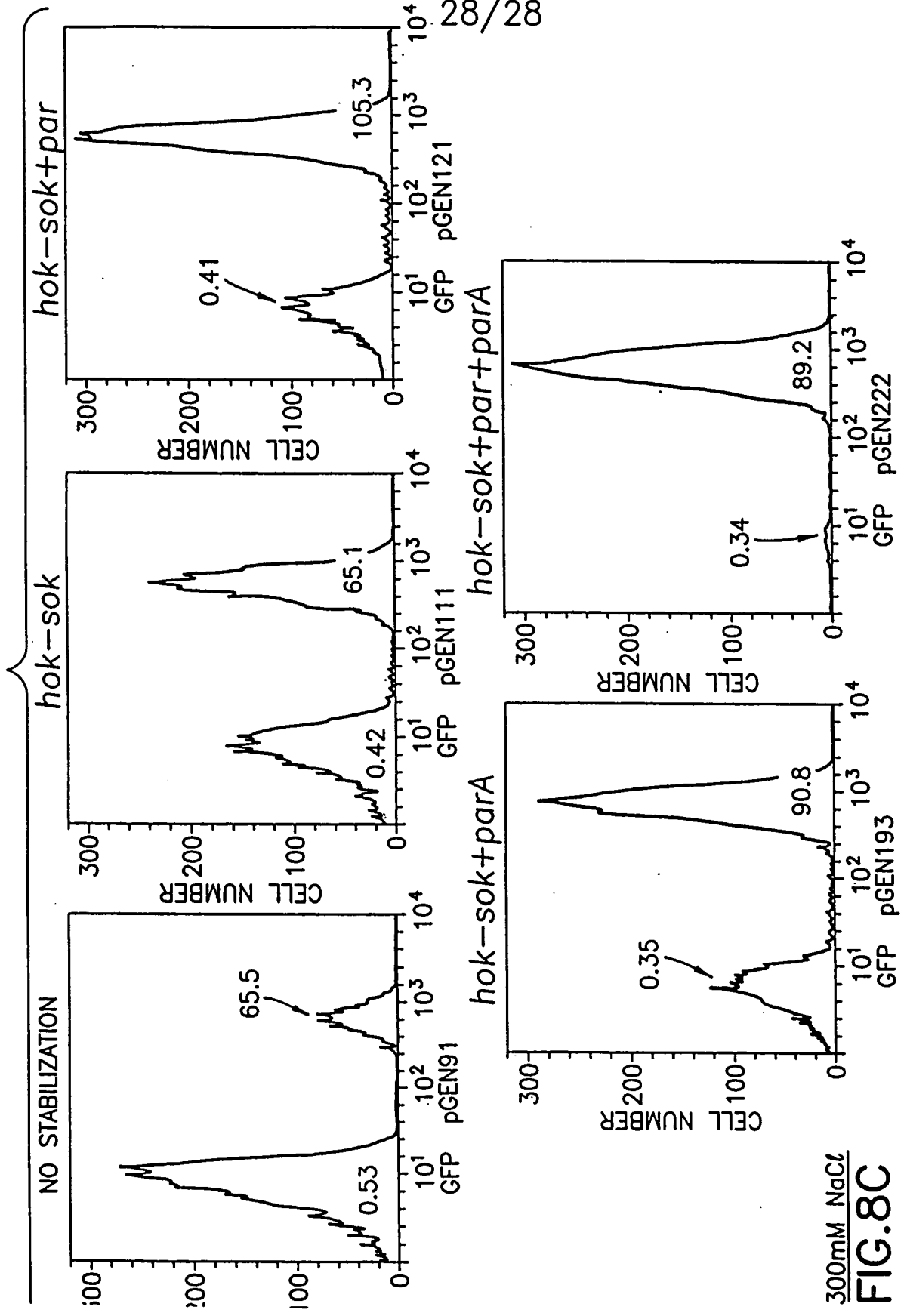


FIG.8C